



# HPE Metered Power Distribution Units

Highly accurate power monitoring with built-in remote capabilities



HPE Metered Power Distribution Units provide rack-level power monitoring over the network. With billing-grade accuracy, these are an excellent choice for data centers wanting to make the most of circuit capacity, or for co-location facilities needing to precisely track power usage for billing purposes.

## Reduce complexity in the data center

The demands of running an enterprise data center or co-location facility are complex enough. In addition to keeping a tight watch over energy consumption and managing space constraints, today's business requirements call for highly accurate billing capabilities so that the line-of-business or co-location service provider can maintain an accurate account of resource usage.

It's hard to believe something as simple as a power distribution unit (PDU) could answer enterprise-level data center challenges. Yet HPE Metered PDUs are just one more example of how Hewlett Packard Enterprise makes every aspect of the data center work for you—answering your challenges with simple, yet effective solutions that are easy to use and make a real impact on your bottom line.

HPE Metered PDUs feature billing-grade accuracy along with built-in remote capabilities that simplify and allow for remote power monitoring and management from anywhere on the network. They come in a slim profile design with multiple outlet and power configurations to meet a variety of needs. And all are backed by HPE's limited three-year warranty.

## Available in a flexible variety of options

HPE Metered PDUs are available in 1U and vertical form factors in single- and three-phase models. The low-profile single-piece design of these PDUs provides multiple mounting options. All HPE Metered PDUs can be mounted to stay completely out of the critical rear maintenance path needed to service IT equipment in the rack. All vertical models use industry standard button and keyhole mounting for simple drop-in installation in HPE Advanced and Enterprise Series racks, as well as in many third-party racks.

**Environmental monitoring**

An optional HPE Environmental Sensor attaches to the PDU and can measure air temperature and humidity in the front or rear of the rack. The environmental sensor will send alerts over the network based on user-defined thresholds.

**1U PDUs**

- HPE Metered PDUs with 1U form factors mount in 1U of space in any EIA standard rack

**Vertical PDUs**

- Available in a variety of sizes to meet the needs of many environments
- Mount vertically on either side in the rear of the rack using industry standard button and keyhole mounting
- Standard mounting faces the outlet toward the rear of the rack; this configuration fully prevents interference in the maintenance zone between rear RETMA rails

Using the optional configuration of facing the outlets into the rack, multiple HPE Metered PDUs can be mounted on one side of the rack for higher power density (Note: Facing the outlets into the rack will interfere with the few lower rack U spaces of the rear maintenance zone due to breakers on the PDUs).

**Key features and benefits****Enterprise class features**

- Billing-grade accuracy of 99% for precisely allocating data center expenses
- Local and Lightweight Directory Access Protocol (LDAP) authentication provides security whether installed in a single rack or throughout an entire enterprise data center
- Optional environmental sensor monitors temperature and humidity at the rack to help balance cooling and improve efficiency

**Ease of use**

- Built-in remote monitoring capabilities
- Easy to use Web interface
- User-defined thresholds provide customization of alerts to match data center policies
- Advanced LCD pixel display simplifies local setup and troubleshooting
- Color coding simplifies phase balancing and branch circuit breaker identification
- Local and LDAP authentication provide for faster, simpler maintenance
- Slim profile design simplifies and prevents interference with maintenance activities in the rear of the rack
- Slim design and multiple mounting options allow for mounting on both sides of the rack or mounting multiple PDUs on one side








**Lower cost of ownership**






- High operating temperature of 60°C/140°F reduces data center cooling costs
- Accurate power monitoring improves circuit utilization and reduces stranded power
- Metering provides information that can help balance power throughout the data center to maximize cooling efficiency
- Ability to daisy-chain two units from one IP address reduces network connection costs
- Built-in cable retention feature eliminates the need for special order cables that increase unit cost

## HPE Metered PDU technical specifications

PART NUMBER	REGION	FORM FACTOR	VA RATING	INPUT CIRCUIT	INPUT PLUG	OUTLETS
<b>100–120 V single-phase</b>						
D9N43A	NA/JPN	Horizontal	2.8kVA	100–120 V, 24 A	(Attached) NEMA L5-30P	(12) NEMA 5-20R
<b>200–240 V single-phase</b>						
D9N44A	NA/JPN	Horizontal	4.9kVA	200–240 V, 30 A	(Attached) NEMA L6-30P	(12) IEC 60320 C13
D9N45A	WW	Vertical	3.6kVA	200–240 V, 16 A or 20 A	(Detachable) IEC 60320 C20	(16) IEC 60320 C13
D9N46A	WW	Horizontal	3.6kVA	200–240 V, 16 A or 20 A	(Detachable) IEC 60320 C20	(12) IEC 60320 C13
D9N47A	NA/JPN	Vertical	4.9kVA	200–240 V, 30A	(Attached) NEMA L6-30P	(20) IEC 60320 C13 (4) IEC 60320 C19
D9N48A	INTL	Vertical	7.3kVA	220–240 V, 32 A	(Attached) IEC 60309 32A 3-wire	(20) IEC 60320 C13 (4) IEC 60320 C19
D9N49A	NA	Vertical	8.3kVA	200–240 V, 50 A	(Attached) Hubbell Locking CS8265C	(30) IEC 60320 C13 (3) IEC 60320 C19
D9N50A	INTL	Vertical	7.3kVA	220–240 V, 32A	(Attached) IEC 60309 32A 3-wire	(32) IEC 60320 C13 (4) IEC 60320 C19
G9Z05A	NA/JPN	Vertical	4.9kVA	200–240 V, 30 A	NEMA L6-30P	(12) IEC 60320 C13
G9Z06A	INTL	Vertical	7.3kVA	200–240 V, 32 A	IEC 60309 32A 3-wire	(12) IEC 60320 C13
<b>208–240 V three-phase</b>						
D9N51A	NA/JPN	Vertical	8.6kVA	200–208 V, 30 A three-phase Delta	(Attached) NEMA L15-30P	(18) IEC 60320 C13 (3) IEC 60320 C19
D9N52A	NA/JPN	Vertical	5.7kVA	200–208 V, 20 A three-phase Wye	(Attached) NEMA L21-20P	(18) IEC 60320 C13 (3) NEMA 5-20R
D9N53A	NA/JPN	Vertical	8.6kVA	200–208 V, 30 A three-phase Wye	(Attached) NEMA L21-30P	(18) IEC 60320 C13 (3) IEC 60320 C19 (3) NEMA 5-20R
D9N54A	NA/JPN	Vertical	17.3kVA	200–208 V, 60 A, three-phase Delta	(Attached) IEC 60309 60A 4-wire	(24) IEC 60320 C13 (3) IEC 60320 C19
D9N55A	INTL	Vertical	11kVA	346–415 V, 16A three-phase Wye	(Attached) IEC 60309 16 A 5-wire	(18) IEC 60320 C13 (3) IEC 60320 C19
D9N56A	INTL	Vertical	22kVA	346–415 V, 32 A three-phase Wye	(Attached) IEC 60309 32A 5-wire	(30) IEC 60320 C13 (3) IEC 60320 C19
D9N57A	INTL	Vertical	11kVA	346–415 V, 16 A three-phase Wye	(Attached) IEC 60309 16A 5-wire	(30) IEC 60320 C13 (3) IEC 60320 C19
D9N58A	NA/JPN	Vertical	14.4kVA	200–208 V, 50 A three-phase Delta	(Attached) Hubbell Locking CS8365C	(12) IEC 60320 C13 (12) IEC 60320 C19
D9N59A	NA/JPN	Vertical	17.3kVA	200–208 V, 60 A three-phase Delta	(Attached) IEC 60309 60A 4-wire	(12) IEC 60320 C13 (12) IEC 60320 C19
D9N60A	INTL	Vertical	22kVA	346–415 V, 32 A three-phase Wye	(Attached) IEC 60309 32A 5-wire	(12) IEC 60320 C13 (12) IEC 60320 C14
D9N61A	NA/JPN	Vertical	16.6kVA	346–415 V, 30 A three-phase Wye	(Attached) IEC 60309 32A/30A 5-wire	(30) IEC 60320 C13 (3) IEC 60320 C19
D9N62A	NA/JPN	Vertical	16.6kVA	346–415 V, 30 A three-phase Wye	(Attached) IEC 60309 32A/30A 5-wire	(12) IEC 60320 C13 (12) IEC 60320 C19
G9Z07A	NA/JPN	Vertical	22kVA	100–208 V, 32 A three-phase Delta	IEC 60309 32A 4-wire watertight	(12) IEC 60320 C13 (12) IEC 60320 C19
G9Z08A	INTL	Vertical	22kVA	346–415 V, 32 A three-phase Wye	IEC 60309 32A 5-wire watertight	(12) IEC 60320 C13 (12) IEC 60320 C19
<b>277/480 V three-phase</b>						
D9N63A	NA	Vertical	199kVA	30 A, 480 V three-phase Wye	(Attached) NEMA L22-30	(30) RF-203P-HPE (LS-26)
<b>Environmental sensor</b>						
E2D53A	An optional environmental sensor attaches to the HPE Metered PDU and can measure air temperature and humidity in the front or rear of the rack. The environmental sensor will send alerts over the network is based on user-defined thresholds.					

## HPE connector chart

VOLTAGE	100–125 V SINGLE PHASE		200–240 V SINGLE PHASE				
Amps	20 A	30 A	20 A	20 A	30 A	32 A	20 A
# Wires	3	3	3	3	3	3	5
Plug name	NEMA L5-20P	NEMA L5-30P	IEC C20	NEMA L6-20P	NEMA L6-30P	IEC 309 32A, 2-pole, 3-wire	NEMA L21-20P
Sample plug image							

VOLTAGE	208 V THREE PHASE			400–415 V THREE PHASE		
Amps	16 A	30 A	50 A	60 A	32 A	
# Wires	5	5	4	4	5	
Plug name	IEC 309 16 A, 3-pole, 5-wire	NEMA L21-30P	CS8365C	IEC 309 60A, 3Pole, 4-wire	IEC 309 32 A, 3-pole, 5-wire	
Sample plug image						

## Protect your investment

### Hewlett Packard Enterprise warranty

HPE Metered PDUs are backed by a limited three-year warranty and automatically assume the Foundation Care coverage level of any covered HPE ProLiant Server in the same rack.

### Hewlett Packard Enterprise support services

Today's IT environment is complex, and administrators are pulled in many directions. With HPE Foundation Care, you can simplify your day-to-day system support experience. Meet your availability commitments with a variety of coverage levels and response times, connect to Hewlett Packard Enterprise for faster problem resolution, and get back to business.

With HPE Foundation Care, you'll have access to Hewlett Packard Enterprise experts via phone, Web, or both. You'll receive problem diagnosis and support, replacement parts and materials, access to firmware and software updates, and collaborative support on leading third-party operating systems for x86 hardware.

Simple, standard service levels make it easy for you to determine the right level of hardware and software support coverage for your service-level agreement and budgetary requirements.

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